

- * SWBAT differentiate between mass, weight, and volume
- * SWBAT define and measure motion and speed

Sep 6-2:31 PM

Welcome!!!

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Centering...

SECA Physics
Tuesday 30 September 2013

- * Pick up:
 - slip of paper (for later)

Opening Activity:

How can we define motion???

PUSH-PULL

GO

DIRECTION

WALKING

COMPARED TO SOMETHING

Bill Nye - Motion

<https://www.youtube.com/watch?v=Vx8-qLyAi1E>

Sep 7-7:04 AM

MOTION IS CHANGE IN POSITION
RELATIVE TO FIXED POINT

BILL NYE MOVING?

YES - PLATFORM
 NO - CAMERA

CHANGE IN

$$\text{SPEED} = \frac{\Delta \text{DISTANCE}}{\Delta \text{TIME}}$$

SPEED IS CHANGE IN DISTANCE
 OVER CHANGE IN TIME

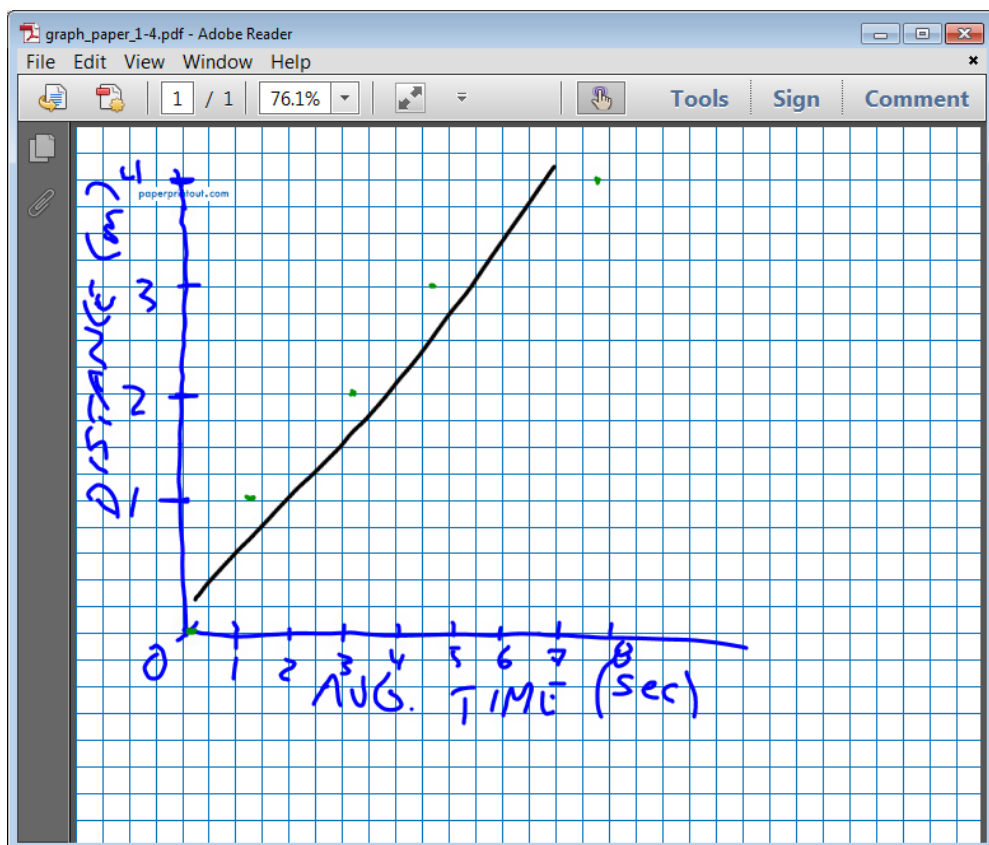
Let's observe motion...

Oct 4-7:27 AM

- Collect data in Excel
- Rules for good graphs...
 - Let's graph distance vs. time together...

	A	B	C	D	E	F	G
1	Bowling Ball motion						
2							
3	Distance (m)	0	1	2	3	4	
4	Time #1 (s)	0	1.18	2.22	3.56	5.19	
5	Time #2 (s)	0	1.22	2.25	3.60	5.53	
6	Time #3 (s)	0	1.16	2.53	3.68	5.25	
7	Average time (s)		1.19	2.33	3.61	5.32	0.0
8							
9	Δ distance (m)		1	1	1	1	
10	Δ time (s)		1.2	1.1	1.3	1.7	
11							
12	Speed (m/s)		0.8427	0.87209	0.78125	0.5848	
13							

Oct 3-7:40 AM



Sep 30-9:06 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. MOTION is measured relative (or compared) to a fixed point.

2. For our experiment, when did we **start** our stopwatches?

A. When the ball was released

☒ B. When the ball got to the bottom of the ramp

C. When the ball passed the mark in front of the person timing

3. SPEED = $\frac{\text{change in distance}}{\text{change in time}}$

Sep 14-7:28 AM